

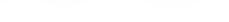
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 68.0327
INTERNATIONAL APPLICATION NO. PCT/US2003/014993	INTERNATIONAL FILING DATE 14 May 2003	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 107518885
PRIORITY DATE CLAIMED 21 June 2002		
TITLE OF INVENTION Method and Apparatus for Downhole Pipe or Casing Repair		
APPLICANT(S) FOR DO/EO/US Wenlin Zhang and Joe Walter		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. <input checked="" type="checkbox"/> The US has been elected (Article 31). <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). <input checked="" type="checkbox"/> has been communicated by the International Bureau. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <input type="checkbox"/> is attached hereto. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). <input type="checkbox"/> have been communicated by the International Bureau. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. <input type="checkbox"/> have not been made and will not be made. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
<p>Items 11 to 20 below concern document(s) or information included:</p> <ol style="list-style-type: none"> <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. <input type="checkbox"/> A preliminary amendment. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. <input type="checkbox"/> A substitute specification. <input type="checkbox"/> A power of attorney and/or change of address letter. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). <input checked="" type="checkbox"/> Other items or information: copy of the IPER; WO Publication 		

"EXPRESS MAIL" MAILING LABEL
 NUMBER **EV0458588085**
 DATE OF DEPOSIT **17/7/04**
 I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING
 DEPOSITED WITH THE UNITED STATES POSTAL
 SERVICES "EXPRESS MAIL" POST OFFICE TO ADDRESSEE
 SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED
 ABOVE AND IS ADDRESSED TO THE COMMISSIONER
 FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450
Kerry Morris

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER	
107518883		PCT/US2003/014993		68.0327	
21. The following fees are submitted:					
<input checked="" type="checkbox"/> a) Basic national fee..... \$300.00 <input checked="" type="checkbox"/> b) Examination fee..... \$200.00 <input checked="" type="checkbox"/> c) Search fee..... \$500.00			Applicant use Office use only \$ 300.00 \$ 200.00 \$ 500.00 \$ 1000.00		
TOTAL OF ABOVE CALCULATIONS = \$1000.00					
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		RATE	
- 100 =	/50 =			x \$250.00	
\$ 130.00					
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		\$
Total claims	1020 =	0	x \$50.00		\$
Independent claims	2 - 3 =	0	x \$200.00		\$
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00		\$
TOTAL OF ABOVE CALCULATIONS = \$ 1130.00					
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.					
SUBTOTAL = \$					
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).					
+ \$					
TOTAL NATIONAL FEE = \$ 1130.00					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property					
+ \$					
TOTAL FEES ENCLOSED = \$ 1130.00					
Amount to be refunded:  Amount to be charged:  \$ 1130.00					
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>50-2183</u> in the amount of \$ <u>1130.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50-2183</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Victor H. Segura Schlumberger Technology Corporation 200 Gillingham Lane Sugar Land, Texas 77478					
 SIGNATURE Victor H. Segura NAME 44,329 REGISTRATION NUMBER					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
ZHANG, WENLIN et al) Docket: 68.0327
International Application No: PCT/US03/14993) Priority Date: 21 June 2002
International Filing Date: 14 May 2003)
)

For: Method and Apparatus for Downhole Pipe of Casing Repair

Mail Stop: PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RESPONSE TO WRITTEN OPINION DATED JUNE 7, 2004

Sir:

In response to the Written Opinion dated June 7, 2004, a new set of claims 1-10 are attached hereto and arguments are presented herein with respect to the above identified application.

In the Written Opinion, the examiner indicated that claims 2-3 and 7-12, which are set forth in the above-identified originally filed PCT application, were novel and possessed an inventive step because of the following reason: "the prior art does not teach or fairly suggest pipe repair apparatus which has a plating apparatus adapted for plating the interior surface of the pipe and which has a corrosion monitoring tool adapted for examining the interior surface after the plating apparatus plates a new surface on the interior of the pipe."

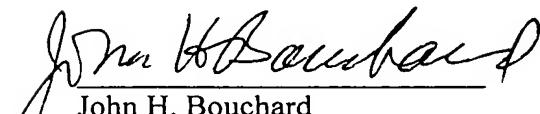
As a result of the above reason, the new set of claims 1-10 attached hereto include two independent claims: 'independent apparatus claim 1' and 'independent method claim 4'.

The 'independent apparatus claim 1' attached hereto represents 'originally filed claim 2' placed in independent form; that is, the 'independent apparatus claim 1' includes the following 'concept': "a corrosion monitoring tool adapted for examining said interior surface of said pipe after said plating apparatus plates said new surface on said interior surface of said pipe." Since the 'originally filed claim 2' was indicated as being novel and having an inventive step, it is respectfully submitted that, in view of the above 'concept' present in the 'independent apparatus claim 1', apparatus claims 1-3 attached hereto are also believed to be novel and have an inventive step.

The 'independent method claim 4' includes the following 'step' which appeared as 'originally filed claim 10' in the above identified PCT application: "examining, by a corrosion monitoring tool, said interior of said pipe after plating said new surface on said interior of said pipe." Since the above 'step' in 'independent method claim 4' is substantially similar to the above referenced 'concept' set forth in 'independent apparatus claim 1', and since 'independent apparatus claim 1' is believed to be novel and have an inventive step, it is respectfully submitted that 'independent method claim 4' is also novel and has an inventive step. Accordingly, method claims 4-10 attached hereto are believed to be novel and have an inventive step.

Please charge any additional fee and credit any overpayment to deposit account 50-2183.

Respectfully Submitted,



John H. Bouchard
Registration No. 29,286
Attorney for Applicant

P.O. Box 219
Richmond, Texas 77406
281-342-0373

Date: July 9, 2004